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416. *By Prof. W. P. Casey.*—Given the base AB and the angle A of a triangle ABC ; find the locus of the foot of the perpendicular CF drawn from C to the side of the inscribed square.

417. *By George Eastwood.*—Two boys, A and B , play a game at marbles. A deposits 50 white marbles in a bag; B deposits 50 yellow marbles of the same size and value as A 's, in another bag, and the game is this:—

The bags being placed in convenient positions, B , at a given signal, takes a marble out of A 's bag and drops it into his own bag; then A takes a marble out of B 's bag and drops it into his own bag. Next B takes another marble out of A 's bag and transfers it to his own, and A then transfers one of B 's marbles to his own bag, and so on. After 50 transfers from each bag to the other, in the above order, what is the probable number of white marbles found in B 's bag, and how many transfers will B have to make to gain 25 of A 's marbles?

PUBLICATIONS RECEIVED.

Linear Associative Algebra. By BENJAMIN PEIRCE, LL. D. New Edition with Addenda and Notes, by C. S. PEIRCE, Son of the Author. 133 pp., 4to. New York: D. Van Nostrand, Publisher. 1882.

Brief Description of the Algebra of Relatives. By C. S. PEIRCE. 4to. 1882.

The Reduction of Air-pressure to Sea-level at Elevated Stations West of the Mississippi River. By HENRY A. HAZEN, A. M. 4to. 42 pp., with 20 isobarometric maps. Washington: 1882.

Note on Hanson's General Formulae for Perturbation. By G. W. Hill. [Reprinted from the American Journal of Mathematics, Vol. IV, No. 3.]

Notes, Queries, and Answers. Vol. I. No. 1. July, 1882. 16 pp., 8vo. Monthly. S. C. & L. M. Gould, publishers, Manchester, N. H.

ERRATA.

On page 143, line 10, for value, read values.

“ “ “ “ 21, last word in line, for the, read these.

“ “ “ “ 7, from bottom, for “leimits”, read limits.